

Serial No. 10/023,824
Amdt. dated May 20, 2005
Reply to Office Action of February 23, 2005

Docket No. P-0294

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-11 and 13-18 are pending in the present application. Claim 12 has been canceled and claims 1, 7, 11 and 14-16 have been amended by the present amendment.

In the outstanding Office Action, claim 1 was objected to; claims 11, 12 and 16 were rejected under 35 U.S.C. § 102(e) as anticipated by Wright et al.; claims 1-3 and 7 were rejected under 35 U.S.C. § 103(a) as unpatentable over Davis et al. in view of Wright et al.; and claims 4-6, 8-10, 13-15, 17 and 18 were indicated as allowable if rewritten in independent form.

Applicants thank the Examiner for the indication of allowable subject matter.

Further, claim 1 has been amended in light of the objection noted in the Office Action. Accordingly, it is respectfully requested this objection be withdrawn.

The present invention currently includes independent claims 1, 7, 10 and 16. Independent claim 1 has been amended to clarify that the reference signal generation unit generates reference signals that are independent of the first and second phase digital input signals I and Q to produced a predistortion model. Independent claims 7, 10 and 16 include similar features in a varying scope.

These features are illustrated in non-limiting example of Figures 2 and 4, for example, in which the reference signal generating unit 190 generates the I\Q reference signals independent of the I\Q input signals from the input unit 100. As noted in the present application at paragraph [52], for example, when the predistortion coefficient varying the characteristic of the predistortion unit 110 is updated, the input signal inputted to the power amplifier may be used as it is. Instead, the reference signals generated from the reference signal generation unit 190 are used in the present invention. The reference signal generation unit 190 randomly generates the reference signals, to be used as inputs of the predistortion model, in a range of signals that may be inputted to the power amplifier 140.

This differs from Davis et al. in which the I\Q reference signals 16I and 16Q are generated based on the original input signal (DATA IN) as shown in Figure 4, for example. Wright et al. also do not teach or suggest these features.

Accordingly, it is respectfully submitted independent claim 1, 7, 10 and 16 and each claims depending therefrom are allowable.

Further, the specification has been amended to minor informalities.

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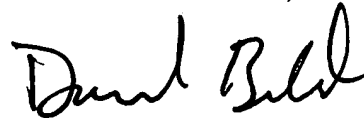
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CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, David A. Bilodeau, at the telephone number listed below. Favorable consideration and prompt allowance are earnestly solicited.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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